

What is claimed is:

1. A gas chromatograph with a fluid control assembly for controlling flow and pressure of gas, said fluid control assembly comprising:

5 a flow path,

a control valve situated in the flow path and being capable of adjusting an opening degree thereof,

a flow resistance provided in the flow path at a downstream side of the control valve,

10 differential pressure detecting means attached to the flow path for detecting a differential pressure between two ends of the flow resistance,

pressure detecting means attached to the flow path for detecting pressure on an upstream side or a downstream side of
15 the flow resistance, and

control means attached to the control valve, differential pressure detecting means and pressure detecting means for carrying out a predetermined calculation based on signals from the differential pressure detecting means and the pressure
20 detecting means for controlling the opening degree of the control valve based on a result of the calculation.

2. A gas chromatograph according to claim 1, wherein said differential pressure detecting means is a pressure sensor, and
25 said pressure detecting means is a pressure sensor, said pressure sensors being attached to the upstream side and the downstream side of the flow resistance..

3. A gas chromatograph according to claim 1, further comprising
30 a bomb for providing a fluid to the flow path, and a sample

introducing part, said fluid control assembly being situated .
between the bomb and the sample introducing part.